AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning on page 2, line 23 as follows:

A polymer composition according to the invention (denoted hereafter by

polymer TiO composition) may be translucent or be colored. The composition is

translucent when it is shielded from the light and when the titanium is essentially in

the Ti⁴⁺ form, the polymer then corresponding to the formula TiO(OH)₂. When the

titanium is essentially in the Ti³⁺ form in the TiO polymer, a broad absorption band

exists in the visible range (between 400 and 850 nm), which results in a violet, blue,

midnight blue or green coloration of the composition. The coloration changes with

the proportion of Ti³⁺. It goes from violet green, in the case of low Ti³⁺ concentrations

to green blue in the case of high concentrations. When all the titanium is in the Ti³⁺

form, the TiO polymer corresponds to the formula TiO(OH) (H₂O).

Please replace the paragraph beginning on page 3, line 29 as follows:

In a second embodiment, the TiO polymer composition of the invention is

obtained directly in reduced form, in which at least a part of the titanium is in the Ti³⁺

oxidation state by a method consisting in reducing TiOCl2 using a species that is

oxidizable at a potential of less than -0,05 V with respect to a standard hydrogen

electrode. As an example, mention may be made of metals in oxidation state zero,

such as Ni, Fe, Al, Cr, Zr, Ti, Nb, Cs, Rb, Na, K, Li, La and Ce, ionic compounds, in

which the cation is chosen from V²⁺, Ti²⁺ and Cr²⁺, and ionic compounds in which the

anion is chosen from $S_2O_3^2$, H, and S_2^2 . Zinc is particularly preferred. In this case,

the TiO polymer composition according to the invention is obtained with a coloration. If it is then irradiated by UV radiation, the content of Ti³⁺ species increases and its coloration changes from violet green to blue violet and then to green blue as the content of Ti³⁺ ions increases.

Please replace the paragraph beginning on page 8, line 3 as follows:

The structure of the $TiO(OH)_2$ polymer gel was characterized by titanium K-edge EXAFS analysis. The results of the fine structure analysis give the number N of neighboring atoms, the distance R between an absorbent atom and its neighbors, the Debye-Waller factor σ , the energy shift ΔE_0 and the residue p. The results are given in the table below.

TiO(OH)₂	N	R(Å)	σx10 ² (Å)	$\Delta E_o(eV)$	p(%)
Ti-O	3.91	1.89	1.3	0.48	
Ti-O	2.08	1.98	2.8	0.00	2.32
Ti-Ti	2.28	2.92	6.3	2.84	
Ti-Ti	1.1 <u>1.71</u>	3.27	1.7	6.85	